No.



9500032

# THE UNITED STATES OF ANTERIOA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Pioneer Hi-Bred International, Inc.

Thereas, there has been presented to the

### Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED, PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR MPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT OF BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'9281'

In Yestimonn Marceot, I have hereunto set my hand and caused the seal of the Plant Bariety Protection Office to be affixed at the City of Washington, D.C. this thirtieth day of January in the year of our Lord a thousand nine hundred and ninety-six.

Allert

Marsha A. Sanson

Plant Variety Protection Office Agricultural Marketing Service LAyriculturo

Pioneer Hi-Bred International, Inc.  4. ADDRESS (street and no. or R.F.D. no., city, state, and ZIP)  7. 700 Capital Square  400 Locust St.  Des Moines, IA 50309  (515  6. GENUS AND SPECIES NAME Glycine max  CROP KIND NAME (Common Name)  Soybean  10. If THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporassociation, etc.)  COrporation  11. IF INCORPORATED, GIVE STATE OF INCORPORATION  12. D  13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS AF JOhn Grace  Mike Rotion  7300 NW 62nd Ave.  PO Box 1004  Johnston, IA 50131-1004  14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow INSTRUCTIONS a Mibit A, Origin and Breeding History of the Variety  Exhibit C, Objective Description of Variety  Exhibit C, Diejective Description of Variety  Exhibit C, Statement of the Basis of Applicant's Ownership  Exhibit C, Statement of the Basis of Applicant's Ownership  Exhibit C, Statement of the Basis of Applicant's Ownership  Exhibit C, Statement of the Basis of Applicant's Ownership  Exhibit C, Statement of the Basis of Applicant's Ownership  Exhibit C, Statement of the Basis of Applicant's Ownership  Exhibit C, Statement of the Basis of Applicant's Ownership  Exhibit C, Statement of the Basis of Applicant's Ownership  Exhibit C, Statement of the Basis of Applicant's Ownership  Exhibit C, Statement of the Basis of Applicant's Ownership  Exhibit C, Diejective Description of Variety  Exhibit C, Statement of the Basis of Applicant's Ownership  Exhibit C, Diejective Description of Variety  Exhibit C, Statement of the Basis of Applicant's Ownership  Exhibit C, Stateme	EMPORARY DESIGNATION OR EXPERIMENTAL NO.  HONE (include area code)  1270-3582  ATE OF DETERMINATION  Lober 1991  Lion, partnership,  ATE OF INCORPORATION  1926  PLICATION AND RECEIVE ALL PART (COPY)  Cal square, 400  Les, IA 50309	Certificate Fee:  \$\frac{9}{300000}  Date  \[ \text{December 21, 1995} \]  PERS
APPLICATION FOR PLANT VARIETY PROTECTION  (INSTRUCTIONS ON REVERSE)  1. NAME OF APPLICANT(S) (as it is to appear on the Criticate)  Pioneer Hi—Bred International, Inc.  4. ADDRESS (street and no. or R.F.D. no., city, state, and ZIP)  7. TOO Capital Square  4. ADDRESS (street and no. or R.F.D. no., city, state, and ZIP)  7. TOO Capital Square  4. ADDRESS (street and no. or R.F.D. no., city, state, and ZIP)  7. FAMILY NAME (Botanical)  8. CROP Moines, IA 50309  6. GENUS AND SPECIES NAME  Glycine max  8. CROP KIND NAME (Common Name)  Soybean  10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporassociation, etc.)  Corporation  11. IF INCORPORATED, GIVE STATE OF INCORPORATION  12. D  13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS ARE JOHN Grace  7300 NW 62nd Ave.  PO Box 1004  Johnston, IA 50131-1004  PIC  14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow INSTRUCTIONS as IS Exhibit a, lovely statement of the Basis of Applicant's Ownership  Exhibit A Origin and Breeding History of the Variety  A Exhibit O, Objective Description of Variety  C Exhibit O, Objective Description of Variety  A Exhibit O, Additional Description of Variety  B Seed Sample (2,500 viable unfreated seeds). Date Seed Sample mailed to Plant V Plant Variety Protection Act   YES     "YES" answer items to and 17 below)  Plant Variety Protection Act   YES     "YES" answer items to and 17 below)  15. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE  LIMITED AS TO NUMBER OF GENERATIONS?  17. IF "YES" TO IT  18. DID THE APPLICANT(S) PREDIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.  18. DID THE APPLICANT(S) PREDIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.	EMPORARY DESIGNATION OR EXPERIMENTAL NO.  HONE (include area code)  1270-3582  ATE OF DETERMINATION  Lober 1991  Lion, partnership,  ATE OF INCORPORATION  1926  PLICATION AND RECEIVE ALL PART (COPY)  Cal square, 400  Les, IA 50309	certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).  3 VARIETY NAME 9281  FOR OFFICIAL USE ONLY PUPO NUMBER 9500032  FOR Date NOVEMBER 8, 1994  Time A.M. P.M.  Filling and Examination Fee: \$2,325.00  Date OCTOBER 27, 1994  Certificate Fee: \$30000  Date December 21, 1995  December 21, 1995  December 21, 1995  December 21, 1995
1. NAME OF APPLICANT(S) (as it is to appear on the Certificate)  Pioneer Hi-Bred International, Inc.  4. ADDRESS (street and no. or R.F.D. no., city, state, and ZIP)  700 Capital Square  400 Locust St.  Des Moines, IA 50309  (515  6. GENUS AND SPECIES NAME Glycine max  B. CROP KIND NAME (Common Name)  Soybean  10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporassociation, etc.)  Corporation  11. IF INCORPORATED, GIVE STATE OF INCORPORATION  12. O  Towa  13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S). IF ANY, TO SERVE IN THIS AF JOhn Grace  Mike Roti 7300 NW 62nd Ave.  PO Box 1004  Johnston, IA 50131-1004  14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow INSTRUCTIONS a Methods in C. Objective Description of Variety  Exhibit a, Origin and Breeding History of the Variety  Exhibit C. Objective Description of Variety  Ex	ATE OF DETERMINATION  Cober 1991  tion, partnership,  ATE OF INCORPORATION  1.926  PLICATION AND RECEIVE ALL PART (COPY)  Cal square, 400  es, IA 50309	FOR OFFICIAL USE ONLY  PVPO NUMBER  9500032  F Date  NOVEMBER 8, 1994  Time  A.M. P.M.  F Filing and Examination Fee:  \$2,325.00  Oate  OCTOBER 27, 1994  Certificate Fee:  \$30000  Date  December 21, 1995  PERS
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8. CROP KIND NAME (Common Name)  Soybean  10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporassociation, etc.)  COTPOTATION  11. IF INCORPORATED, GIVE STATE OF INCORPORATION  IOWA  13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS AF MIKE ROTION  John Grace  7300 NW 62nd Ave.  PO Box 1004  Johnston, IA 50131-1004  PHO  14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow INSTRUCTIONS a Michiely Statement of the Basis of Applicant's Ownership Exhibit C, Objective Description of Variety  e. Michiel C, Statement of the Basis of Applicant's Ownership Filing and Examination Fee (\$2,325) made payable to "Treasurer of the United States of Common Protection Act)  PERMIT Variety Protection Act)  YES (If "YES" TO IT INSTANCED AS TO NUMBER OF GENERATIONS?  B. DID THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?  10. Instance of Common Protection Of The Variety In The U.S.  PERMIT YES" ID THE U.S. In THE VARIETY IN THE U.S.  PERMIT YES IN THE SEAL PROTECTION OF THE VARIETY IN THE U.S.	ATE OF DETERMINATION  LOBER 1991  LION, partnership,  ATE OF INCORPORATION  L926  PLICATION AND RECEIVE ALL PARTICIPAL (COPY)  LAI square, 400  Les, IA 50309	Date  Certificate Fee:  Sp. 300 00  Date  December 21, 1995  PERS
Soybean  10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporassociation, etc.)  COIPORATION  11. IF INCORPORATED, GIVE STATE OF INCORPORATION  IOWA  13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS AFT John Grace  Mike Rot!  7300 NW 62nd Ave.  PO Box 1004  Johnston, IA 50131-1004  PHO  14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow INSTRUCTIONS a Mexibit A, Origin and Breeding History of the Variety  b. Schibit C, Objective Description of Variety  d. Schibit C, Objective Description of Variety  e. Schibit C, Objective Description of Variety  f. Seed Sample (2,500 viable untreated seeds). Date Seed Sample mailed to Plant V.  Seed Sample (2,500 viable untreated seeds). Date Seed Sample mailed to Plant V.  Filing and Examination Fee (\$2,325) made payable to "Treasurer of the United States".  5. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY N.  Plant Variety Protection Act!  YES (II "YES," answer items 16 and 17 below)  LIMITED AS TO NUMBER OF GENERATIONS?  I YES II NO  B. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.	ATE OF DETERMINATION  Stober 1991  tion, partnership,  ATE OF INCORPORATION  1.926  PLICATION AND RECEIVE ALL PARTS  1. (COPY)  1. (COPY)  2. 1. Square, 400  2. 1. 1. 50309	Certificate Fee:  5
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I. IF INCORPORATED, GIVE STATE OF INCORPORATION  IOWA  3. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S). IF ANY, TO SERVE IN THIS AFT JOHN Grace  7300 NW 62nd Ave.  PO Box 1004  Johnston, IA 50131-1004  4. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow INSTRUCTIONS AS Exhibit A, Origin and Breeding History of the Variety  Exhibit B, Novelty Statement  C. Exhibit C, Objective Description of Variety  e. Exhibit C, Objective Description of Variety  e. Exhibit E, Statement of the Basis of Applicant's Ownership  f. Exhibit E, Statement of the Basis of Applicant's Ownership  Seed Sample (2,500 viable untreated seeds). Date Seed Sample mailed to Plant V.  G. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY N.  Plant Variety Protection Act)  YES (II "YES." answer items 16 and 17 below)  LIMITED AS TO NUMBER OF GENERATIONS?  YES   NO     FO	PLICATION AND RECEIVE ALL PA 1 (copy) 21 square, 400 25, IA 50309	Certificate Fee:  S J 300:00  Date  December 21, 1994  PERS
IOWA	PLICATION AND RECEIVE ALL PARTICLE (COPY) Cal square, 400 es, IA 50309	Certificate Fee:  \$ \frac{1}{5} \frac{1}{300.00} \\ \text{Detail Detail May 21, 1995} \\ \text{PERS}
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16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE  LIMITED AS TO NUMBER OF GENERATIONS?  YES NO NO FOR PROTECTION OF THE VARIETY IN THE U.S.	oe*	<del></del>
THE DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.	ME ONLY AS A CLASS OF CERTIF NO (If "NO," skip to item 18 below	FIED SEED? (See section 83(a) of the
18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.		OUCTION BEYOND BREEDER SEED?
8. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.	INDATION ET DECLESSES	
	· · · · · · · · · · · · · · · · · · ·	G Carange
M NO Patent Act. Gr	·	).
9. HAS THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED IN THE L  YES (If "YES," GIVE NAMES OF COLIMBIES AND DATES.	S OR OTHER COUNTRIES	
YES (If "YES," GIVE NAMES OF COUNTRIES AND DATES)	OT OTHER COOM TRIES?	
The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished such regulations as may be applicable.	rith the application and will be repli	enished upon request in accordance with
The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety in section 41, and is entitled to protection under the provisions of section 42 of the Plant Variety		
Applicant(s) is (are) informed that false representation herein can jeopardize protection and resi	T TOTOCHOIL MCL	
SNATURE OF APPLICANT (Ownerfelt		
CAPACITY	OR TITLE	DATE
N. John Trace tet	_	10/21/94
NATI IDE OF ADDITIONS	n Research Coord	nator 15/74
NATURE OF APPLICANT [Owner(s)] CAPACITY	OR TITLE	DATE
470 (06-93) Editions of Forms LS-470 (3/86) and CSSD-470 (5/89) are to be destroyed		

## Exhibit A: Origin and Breeding History

#### BREEDING HISTORY OF 9281

Variety 9281 was derived from the cross 9273/30438 in the winter of 1989-1990.

9273 v	vas	derived	from	2981/A3127
30438	**	11	11	9273/30367
30367	**	11	11	9273/30313
30313	17	11	11	9273/30293
30293	**	11	Ħ	XB30C/30176
XB30C	"	11	11	2981/A3127
30176	11	**	tr	9273/30131
30131	11	11	11	9273/30104
30104	11	11	u	2981/6565
6565	11	11	11	MV2E1/RESNIK

In the spring of 1990 F1 seed was grown and inoculated with Phytophthora. Resistant plants were transplanted to the field. Plants were harvested and sent to Chile, where individual F3 plants were harvested.

F3 plant rows were grown in 1991. Seed from each row was screened and confirmed to be homozygous for the Rpslk gene. Bulked seed from a single row was sent to Chile for increase.

Since 1991, variety 9281 has undergone two years of extensive testing and purification. It has been observed to be uniform and stable for all plant traits from generation to generation, with no evidence of variants.

In the winter of 1992-1993 an 8 acre increase was grown in Chile. In 1993, 206 acres of foundation seed equivalent were grown.

Exhibit B: Novelty Statement

Variety 9281 is most similar to Variety 9273. However, 9281 is resistant to races 1--3 of Phytophthora megasperma var. sojae while 9273 is susceptible to these races.

3

EXHIBIT C (Soybeen)

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, MEAT, GRAIN & SEED DIVISION
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MARYLAND 20705

## OBJECTIVE DESCRIPTION OF VARIETY

SOYBEAN (Glycine max L.)

NAME OF APPLICANT(S)	TEMPORARY DESIGNATION VARIETY NAME
Pioneer Hi-Bred International, 1	Inc. 9281
ADDRESS (Street and No., or R.F.D. No., City, State, and Zip 700 Capital Square 400 Locust St. Des Moines, IA 50309	PVPO NUMBER 9500032
in your answer is fewer than the number of boxes provide	e variety in the features described below. When the number of significant digits ded, place a zero in the first box when number is 9 or less (e.g., 0 9).  Adequate soybean variety description. Other characters should be described
1. SEED SHAPE:  2    L    1 = Spherical (L/W, L/T, and T/W ratios = < 1.2)  3 = Elongate (L/T ratio > 1.2; T/W = < 1.2)	T  2 = Spherical Flattened (L/W ratio > 1.2; L/T ratio = < 1.2)  4 = Elongate Flattened (L/T ratio > 1.2; T/W > 1.2)
2. SEED COAT COLOR: (Mature Seed)  1 = Yellow 2 = Green 3 = Brown	4 = Black 5 = Other (Specify)
3. SEED COAT LUSTER: (Mature Hand Shelled Seed)  1 = Dull ('Corsoy 79'; 'Braxton') 2 = Shiny ('No	lebsoy'; 'Gasoy 17')
1 6 Grams per 100 seeds	
5. HILUM COLOR: (Mature Seed)  6 1 = 8uff 2 = Yellow 3 = Brown	4 = Gray 5 = Imperfect Black 6 = Black 7 = Other (Specify)
6. COTYLEDON COLOR: (Mature Seed)  1 1 = Yellow 2 = Green	
7. SEED PROTEIN PEROXIDASE ACTIVITY:  2 1 = Low 2 = High	
8. SEED PROTEIN ELECTROPHORETIC BAND:  1 = Type A (SP1 <sup>a</sup> )  2 = Type B (SP1 <sup>b</sup> )	by
9. HYPOCOTYL COLOR:  1 = Green only ('Evans'; 'Davis') 2 = Green only ('Evans'; 'Davis') 3 = Light Purple below cotyledons ('Beeson'; 'Pickett 7 4 = Dark Purple extending to unifoliate leaves ('Hodgson')	with bronze band below cotyledons ('Woodworth'; 'Tracy') 71') on'; 'Coker Hampton 266A')
10. LEAFLET SHAPE:	
3 1 = Lanceolate 2 = Oval 3 = Ova	ate 4 = Other (Specify)/

_			7401
1	1. LEAI	*LET SIZE:  1 = Small ('Amsoy 71'; 'A5312')  2 = Medium ('Corsoy 79'; 'Gasoy 17')  3 = Large ('Crawford'; 'Tracy')	
	2 IFAF	COLOR:	
•	3	1 = Light Green ('Weber'; 'York') 2 = Medium Green ('Corsoy 79'; 'Braxton') 3 = Dark Green ('Gnome'; 'Tracy')	
*1	3. FLOV	VER COLOR:	· · · · · · · · · · · · · · · · · · ·
	2	1 = White 2 = Purple 3 = White with purple throat	
<b>★</b> 1	4. POD (	COLOR:	· · · · · · · · · · · · · · · · · · ·
	2	1 = Tan 2 = Brown 3 ≈ Black	
<b>★</b> 18	5. PLAN	T PUBESCENCE COLOR:	
	2	1 = Gray 2 = Brown (Tawny)	
16	. PLAN	T TYPES:	
	2	1 = Slender ('Essex'; 'Amsoy 71') 2 = Intermediate ('Amcor'; 'Braxton') 3 = Bushy ('Gnome'; 'Govan')	
<b>★</b> 17	. PLAN	T HABIT:	<del></del>
	3	1 = Determinate ('Gnome'; 'Braxton') 2 = Semi-Determinate ('Will') 3 = Indeterminate ('Nebsoy'; 'Improved Pelican')	•
.—			
<b>★</b> 18	. MATU	RITY GROUP:	
0	5	1 = 000 2 = 00 3 = 0 4 = [ 5 = II 6 = III 7 = IV 8 = V 9 = VI 10 = VII 11 = VIII 12 = IX 13 = X	
	01054		<u> </u>
<b>F</b> 19.	DISEA	SE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)	·
	BACT	ERIAL DISEASES:	
*	0	Bacterial Pustule (Xanthomonas phaseoli var. sojensis)	
*	1	Bacterial Blight (Pseudomonas glycinee)	
*	0	Wildfire (Pseudomonas tabaci)	
	FUNGA	AL DISEASES:	•
*	1	Brown Spot (Septoria glycines)	
		Frogeye Leaf Spot (Cercospara sajina)	
*	0	Race 1 0 Race 2 0 Race 3 0 Race 4 0 Race 5 Other (Specify)	
	0	Target Spot (Corynespora cassiicola)	
	0	Downy Mildew (Peronospora trifoliorum var. manshurica)	
	0	Powdery Mildew (Microsphaera diffusa)	
*		Brown Stem Rot (Cephalosporium gregatum)	
	0	Stern Canker (Diaporthe phaseolorum var. caulivora)	

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19	DISEA	SE REACTI	CN: (Essen O m Nos.)				2001		
			SES: (Continued)	ested; T = Susceptible;	2 = Resistant) (Continued)				
*				phaseolorum var; sojae)					
	0		d Stain (Carcospora k						
			ia Root Rot (Rhizoct						
	<u></u>			ra megasperma var. sojae.	1				
*	2	Race 1	2 Race 2		Race 4 2 Race	5 0 Race 6	2 Race 7		
	2	Race 8	2 Race 9	Other (Specify)					
	VIRA	L DISEASE	S:						
	1	Bud Blight	(Tobacco Ringspot V	irus)					
	1	Yellow Mo:	saic (Bean Yellow Mo	saic Virus)					
*	1	Cowpea Mo	saic (Cowpea Chlorot	ic Virus)		•			
	1	Pod Mottle	(Bean Pod Mottle Vir	us)					
$\bigstar$	1	Seed Mottle	(Soybean Mosaic Vir	us)					
	NEMA	TODE DISE	ASES:						
	Soybean Cyst Nematode (Heterodera glycines)								
*	0	Race 1	0 Race 2	1 Race 3 0	Race 4 Other	(Specify)			
	0 Lance Nematode (Hopiciaimus Colombus)								
Southern Root Knot Nematode (Meloidogyne incognita)									
Northern Root Knot Nematode (Melaidogyne Hapla)									
Peanut Root Knot Nematode (Meloidogyne arenaria)									
Reniform Nematode (Rotylenchulus reniformis)									
Ì	OTHER DISEASE NOT ON FORM (Specify):								
20. PI ★ 「	- 1	OGICAL RE	SPONSES: (Enter 0	= Not Tested; 1 = Susce	ptible; 2 = Resistant)	· · · · · · · · · · · · · · · · · · ·			
ר ר	<u> </u>	ron Chiorosi	s on Calcareous Soil						
Other (Specify)									
1. INSECT REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)									
Mexican Bean Beetle (Epilachna varivestis)									
O Potato Leaf Hopper (Empossca fabae)									
L	。	ther <i>(Specif</i> )	d	<del> </del>					
2. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED.									
	HARAC			OF VARIETY	CHARACTER	NAME	OF VARIETY		
Plan	t Shape		9273		Seed Coat Luster	9273			
Lea	Shape	<del></del>	9273		Seed Size	9273			
Leat	Leaf Color 9273 Seed Shape 9273								
Leat	Size	<del></del>	9273		Seedling Pigmentation	9273			
					•		<u> </u>		

FORM LMGS-470-57 (6-83)

### 23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Comparison Data

VARIETY	NO. OF DAY\$ MATURITY	PLANT LODGING SCORE	CM PLANT HEIGHT	LEAFLET SIZE		SEED CONTENT		SEED SIZE G/100	NO. SEEDS/
				CM Width	CM Length	% Protein	% Oil	SEEDS	POD
9281 Submitted	126	1.2	76	6.9	11.3	41.9	21.9	16	
9273 Name of Similar Variety	124	1.2	79	7.1	11.5	41.9	22.1	16	

### PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A2 in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.

#### Exhibit D:

In Exhibit C we have identified 9281 as susceptible to bacterial blight, brown spot, pod and stem blight, rhizoctonia root rot, bud blight, yellow mosaic, cowpea mosaic, pod mottle, and seed mottle. This does not mean that we consider 9281 to be worse than other varieties of similar maturity in reaction to these challenges. Rather, we do not consider 9281 to be immune to them. Therefore, we have chosen to be conservative and have identified 9281 as "susceptible".

Variety 9281 is a late group II variety. If group II maturities are divided into tenths, the relative maturity of 9281 is 2.8.

Isozyme information for 9281.

ACO2 ACO3 ACO4 ACP DIA ENP IDH1 IDH2 MDH MPI PGM PHI 1 1 1 A B A 1 1 B A 1 1

#### Exhibit E.

Variety '9281' was originated and developed by plant breeders from whom, by agreement, Pioneer Hi-Bred International has obtained exclusive rights to protect and market variety '9281'. No rights to such invention, discovery, or development are retained by the plant breeders or by any other party.



Agricultural Marketing Service

Science Division Plant Variety Protection Office NAL Building, Room 500 10301 Baltimore Blvd. Beltsville, MD 20705-2351

October 25, 1995

OCT 30 (995

Dr. John Grace
Pioneer High-Bred International
7300 NW 62nd Avenue
PO Box 1004
Johnston, Iowa 50131-1004

Dear Dr. Grace:

SUBJECT: PVP Application No. 9500032, SOYBEAN, '9281': Exhibit E, Statement of the Basis of the Applicant's Ownership

Before final recommendation for issuance can be made for '9281', certain information needs to be supplied regarding the statement of the basis for ownership. The rights of an applicant to a variety, for plant variety protection purposes, are derived from the original breeder. It is thus necessary to determine the rights that original breeder would have had (or has) under the Plant Variety Protection Act had he or she desired to apply for plant variety protection.

Please supply responses to the following questions:		
NOTE: It is not requested nor are you required to reveal the id	entity of the	e original breeder.
Is the applicant the original breeder¹? Yes_X_ No_		
If no, please answer the following:		
a. If original rights to variety were owned by individual	(s):	
Is (are) the original breeder(s) a U.S. national(s)?	Yes	No
If no, give country		
b. If original rights to variety were owned by company:		
Is the original breeder a U.S. based company?	Yes	No
If no, give country		
The requested information must be received in the Plant Variety I	Protection C	Office on or before

1 Original breeder may be individual company who directed final breeding. See PVPA §41(a)(2) for definition.

November 27, 1995, or the application will be deemed abandoned. A request for an extension of time to supply the information may be made on or before the deadline specified above.

